

L5 ANSWER 122 OF 575 CA COPYRIGHT 2004 ACS on STN  
 AN 132:211720 CA  
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 TI Manufacture of light-weight hollow wallboard with high strength and low  
 production cost  
 IN Wan, Yunzhong  
 PA Loading and Unloading Service Co., Neijiang Vehicle Section, Peop. Rep.  
 China  
 SO Faming Zhuanli Shenqing Gongkai Shuomingshu, 4 pp.  
 CODEN: CNXXEV  
 DT Patent  
 LA Chinese  
 IC ICM C04B020-00  
 CC 58-4 (Cement, Concrete, and Related Building Materials)  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	CN 1178202	A	19980408	CN 1997-107756	19971103
PRAI	CN 1997-107756		19971103		

AB The wallboard is prep'd. from cement 45-55, expanded material  
 10-15, fly ash 30-35, gypsum 4-7,  
 water 40-55 wt.%, and glass fiber. The manuf. process comprises:  
 mixing cement with gypsum and fly  
 ash, adding expanded material under stirring, mixing with  
 water to obtain a micro-foamed slurry (450-560 kg/m3),  
 pouring the slurry into a mold, laying a layer of glass fiber,  
 putting a mold core into the mold, adding slurry to 2/3 designed  
 thickness, laying another layer of glass fiber, adding slurry to  
 designed thickness, settling for 1-1.5 h, removing the mold core,  
 de-molding after 4 h, and curing. Preferably, the expanded material is  
 expanded vermiculite or perlite;.

ST light wt hollow wallboard strength prodn cost; cement light wt  
 hollow wallboard; expanded vermiculite light wt hollow wallboard; expanded  
 perlite light wt hollow wallboard; fly ash  
 gypsum glass fiber wallboard; gypsum fly  
 ash glass fiber wallboard; glass fiber fly ash  
 gypsum wallboard

IT Perlite  
 RL: PEP (Physical, engineering or chemical process); TEM (Technica